

List of Tables

Table 2-1	Revision participant roles	2-2
Table 2-2	Primary authors by alternative	2-12
Table 2-3	Relative differences among grouped alternatives	2-13
Table 2-4	Range of alternatives (in acres) by category	2-16
Table 2-5	Relative similarities and differences between alternatives by situation.....	2-17
Table 2-6	Lands/mineral estate recommended for withdrawal.....	2-31
Table 2-7	Annual allowable sale quantity (chargeable)	2-32
Table 2-8	Vegetation management (nonchargeable)	2-32
Table 2-9a	Developed recreation facilities by alternative – Forestwide	2-35
Table 2-9b	Miles of rivers recommended for inclusion in the National Wild and Scenic River System.....	2-40
Table 2-10	Total number of acres in management prescriptions by alternative	2-44
Table 2-11	Projected outputs for key activities under full implementation level by alternative	2-45
Table 2-12	Fund code distribution by alternative for full implementation, based on BFES activities and costs	2-46
Table 3-1	Acres burned per year by alternative.....	3-7
Table 3-2	Miles of open, unpaved road by alternative	3-8
Table 3-3	Total recreation visits by alternative (in millions of visits per year)	3-8
Table 3-4	Long- and short-term effects on soil productivity from road construction (acres) - first decade	3-15
Table 3-5	Long- and short-term effects on soil productivity from trail construction (acres) – first decade	3-17
Table 3-6	Effects on soil productivity from campsite and cabin construction (acres) – first decade.....	3-18
Table 3-7	Wetlands acres.....	3-32
Table 3-8	Potential disturbances affecting water resources.....	3-34
Table 3-9	Biodiversity components and scales.....	3-47

List of Tables

Table 3-10	Hierarchy of spatial units used in the biodiversity assessment.....	3-50
Table 3-11	Percent land cover classification of the Chugach National Forest by ecological regions.....	3-53
Table 3-12	Percent land cover types of the Chugach National Forest by geographic area.....	3-54
Table 3-13	Percent cover types of the Chugach National Forest by geographic area (does not include ANILCA additions).....	3-57
Table 3-14	Percent forest structural classes of the Chugach National Forest (does not include ANILCA additions and forest stands with no structural attributes).....	3-57
Table 3-15	Changes in forest cover type of the Chugach National Forest portion of the Kenai Peninsula from 1974 to 1999 (National Forest lands only).....	3-58
Table 3-16	Changes in forest size class distribution of the Chugach National Forest portion of the Kenai Peninsula from 1974-1999 (NF lands only).....	3-59
Table 3-17	Summary description and percent coverage of the bioenvironmental components of the bioenvironmental domains of the Chugach National Forest	3-62
Table 3-18	Top ten (out of 217) bioenvironmental classes of the Chugach National Forest.....	3-63
Table 3-19	Area and proportion of land cover types within the perimeter of the Chugach National Forest boundary – a comparison of National Forest System (NFS) lands with all land ownerships including inholdings	3-70
Table 3-20	Rating system used for scoring habitat types in species diversity matrix	3-72
Table 3-21	Numbers of species using the land cover classes and habitats of special interest by season.....	3-74
Table 3-22	Numbers of species using the land cover classes and habitats of special interest by season.....	3-75
Table 3-23a	Regional landscape ownership.....	3-80
Table 3-23b	Percent regional landscape by prescription category, by alternative	3-80
Table 3-24	Documented miles of fish habitat by species and area	3-105

List of Tables

Table 3-25	Miles of stream by process group and area.....	3-106
Table 3-26	Miles of class I, II, and III streams	3-107
Table 3-27a	Miles and acres of fish habitat management by alternative (annually).....	3-117
Table 3-27b	Potential stream miles affected by prescribed fire – decade 1	3-121
Table 3-27c	Miles of anadromous streams open to motorized suction dredging.....	3-124
Table 3-28	Class I stream miles within each ROS class.....	3-125
Table 3-29	Fuels reduction program.....	3-133
Table 3-30	Estimated acreage impacts of spruce beetle on the Kenai Peninsula, Chugach National Forest	3-138
Table 3-31	Common wood decay organisms of live trees in Alaska and tree species infected	3-140
Table 3-32a	Changes in <i>Picea X lutzii</i> canopy intercept on 16 of the 27 permanent plots established on the Kenai Peninsula by the Chugach National Forest Ecology Program.....	3-151
Table 3-32b	Cover type composition on the Chugach National Forest	3-152
Table 3-33	Forested stand structural stages	3-154
Table 3-34	Forest land cover classes of the Chugach National Forest	3-156
Table 3-35	Acres of vegetation treatments by alternative (M acres) – decade 1	3-160
Table 3-36	Acres of vegetation converted to roads and trails by alternative – decade 1	3-164
Table 3-37	Acres of timber harvest treatments by alternative (M acres) – decade 1	3-165
Table 3-38	Estimated acreage change in forest cover type by alternative (M acres) – decade 1.....	3-166
Table 3-39	Estimated acreage change in structural stage by alternative – decade 1	3-167
Table 3-40	Vascular plants with potential viability concerns known or suspected to occur on the Chugach National Forest.....	3-171
Table 3-41	Plants of conservation concern, and reason for concern.....	3-177
Table 3-42	Plants of conservation concern and their potential general habitats.....	3-178
Table 3-43	Potential risk factors to plant species of conservation concern by habitat.....	3-184
Table 3-44	General habitats and associated plants of conservation concern and their potential risks	3-185

List of Tables

Table 3-45	Management indicator species (MIS), threatened and endangered species and sensitive species (TES/SS), and species of special interest (SSI) on the Chugach National Forest	3-209
Table 3-46	Number and percent of species using the general habitat types	3-211
Table 3-47	Relative importance of the general habitat types to management indicator species and species of interest.....	3-212
Table 3-48	Acres of habitat for management indicator species by geographic area.....	3-213
Table 3-49	Some important habitat components and conservation options for selected species of concern.....	3-230
Table 3-50	Management indicator species and species of interest showing general habitat types and geographic areas of concern	3-231
Table 3-51	Potential risk factors to wildlife species of conservation concern by habitat.....	3-232
Table 3-52	Heritage resource sites on the Chugach National Forest, as of January 1, 2002.....	3-282
Table 3-53	Chugach National Forest land status (acres), as of January 1, 2002	3-288
Table 3-54	Description of ROS classes on the Chugach National Forest.....	3-296
Table 3-55a	Recreation visits by activity - Kenai Peninsula.....	3-306
Table 3-55b	Developed recreation infrastructure and capacity – Kenai Peninsula.....	3-307
Table 3-55c	Recreation visits by activity - Prince William Sound	3-312
Table 3-55d	Developed recreation infrastructure and capacity – Prince William Sound	3-313
Table 3-55e	Recreation visits by activity – Copper River Delta	3-318
Table 3-55f	Developed recreation infrastructure and capacity – Copper River Delta	3-319
Table 3-56a	Numbers of people, 16 years and older, participating in selected outdoor recreation activities in 1983, 1995, and 2000, and percentage increase in participation from 1983 to 2000.....	3-326
Table 3-56b	Alaska statewide outdoor recreation participation projections, 2000-2020, using the 1995 NSRE database	3-332

List of Tables

Table 3-56c	Number of times adult Alaskans participate in recreation activities, per capita and projected total times for total population, 2000 to 2020.....	3-334
Table 3-56d	Existing and projected recreation visits to the Chugach National Forest in 2010, by recreation activity.....	3-346
Table 3-57a	Developed recreation facilities by alternative – Kenai Peninsula	3-354
Table 3-57b	Total trails and road miles by alternative – Kenai Peninsula.....	3-355
Table 3-57c	Developed recreation facilities by alternative – Prince William Sound	3-364
Table 3-57d	Total trails and road miles by alternative – Prince William Sound	3-364
Table 3-57e	Developed recreation facilities by alternative – Copper River Delta.....	3-370
Table 3-57f	Total trails and road miles by alternative – Copper River Delta	3-371
Table 3-58	Coarse filter comparison of habitat effectiveness to management intensity.....	3-385
Table 3-59	Percentage of high value deer habitat harvested by alternative	3-386
Table 3-60	Miles of road, end of first decade.....	3-388
Table 3-61	Backcountry Groups facilities by alternative	3-389
Table 3-62	Acreage of designated (Green Island) and eligible RNAs by alternative (acres rounded to hundreds)	3-395
Table 3-63	Summary of tentatively suitable timber acres within designated (Green Island) and eligible RNAs by alternative.....	3-398
Table 3-64	Acres of roadless areas potentially affected by management activities (M acres)	3-402
Table 3-65	Acres of roadless lands affected by roads	3-403
Table 3-66	Miles of inventoried road.....	3-408
Table 3-67	Miles of inventoried trails	3-409
Table 3-68	Gross acres available for access, motorized and nonmotorized activities (M acres)	3-410
Table 3-69a	New roads for timber management at the end of first decade (miles)	3-411
Table 3-69b	New roads for other uses at the end of first decade (miles)	3-411
Table 3-70	Trail access at the end of first decade (miles available).....	3-412
Table 3-71	Dominant prescription adjacent to the Carbon Mountain Road and Whittier	3-414

List of Tables

Table 3-72	Scenic integrity objectives range by prescription.....	3-428
Table 3-73a	Streams eligible for inclusion in the National Wild and Scenic River System.....	3-441
Table 3-73b	Wild and Scenic River miles by alternative and classification	3-443
Table 3-73c	Wild and Scenic River miles by river by alternative and classification.....	3-443
Table 3-74	Chugach National Forest roadless areas	3-453
Table 3-75	Recommended Wilderness by alternative (M acres)	3-455
Table 3-76	Recommended Wilderness by alternative by roadless area (M acres).....	3-456
Table 3-77	Summary of tentatively suitable timber acres recommended for Wilderness by roadless area by alternative (M acres)	3-458
Table 3-78	Forest type composition (percentage) on forested lands on the Chugach National Forest	3-464
Table 3-79	Estimated age class distribution (M acres) on the Chugach National Forest.....	3-465
Table 3-80	Relative sampling errors at the 68 percent confidence level (percent).....	3-465
Table 3-81	Net volume of growing stock on forested lands on the Chugach National Forest	3-466
Table 3-82	Net annual growth of growing stock on available timberlands on the Chugach National Forest (Forestwide summary).....	3-467
Table 3-83	Timber sale volume offered, sold, and harvested, 1980-1999.....	3-471
Table 3-84	Uncut timber volume under contract.....	3-472
Table 3-85	Land classification (acres) – tentatively suitable timberlands, suitable timberlands	3-477
Table 3-86	Acres of suitable timberlands (STL) in management area prescription category and prescription by alternative.....	3-479
Table 3-87	Average acres per year harvested by silvicultural system – decade 1	3-480
Table 3-88	Average acres per year of precommercial thinning - decade 1	3-481
Table 3-89	Annual acres of vegetation management on unsuitable timberlands with projected road accessible nonchargeable volume by alternative – decade 1	3-481
Table 3-90	Timber sale program - decade 1.....	3-483
Table 3-91	Annual reforestation	3-484

List of Tables

Table 3-92	Status of the mineral estate within the Chugach National Forest boundary	3-489
Table 3-93	Mineral production and reserves on the Chugach National Forest.....	3-490
Table 3-94	Mineral resource tract acres and percent of the Chugach National Forest.....	3-491
Table 3-95	“Hardrock” minerals recommended for withdrawal and lands open to mineral entry.....	3-499
Table 3-96	Percent available of most favorable resource tracts.....	3-500
Table 3-97	Zones available for oil and gas leasing and their total acreage	3-502
Table 3-98	Oil and gas leasing stipulations for Zones 1 – 3 (units in acres or miles).....	3-504
Table 3-99	Population characteristics compared for the United States, Alaska, and Southcentral Alaska in 1990 and 1998	3-510
Table 3-100	1998 Employment shares and average annual growth by industry, for the United States, Alaska, and Southcentral Alaska	3-514
Table 3-101a	1998 Real per capita income and average annual growth, for the United States, Alaska, and Southcentral Alaska	3-517
Table 3-101b	1998 Shares of resource-dependent industry income relative to total earned income (percent).....	3-523
Table 3-102	Overview of community characteristics	3-531
Table 3-103	Chugach National Forest 1990 economic sector employment by community (percent).....	3-533
Table 3-104	Estimates of annual wood products employment and income by alternative	3-548
Table 3-105	Study area average annual labor income (1999 dollars) for the wood products industry	3-549
Table 3-106	Present net value for timber.....	3-552
Table B-1	Land suitability classification for timber production by alternative	B-15
Table B-2	Management area prescription allocations for timber production.....	B-17
Table B-3	Stage II economic summary by geographic landscape area and market condition (net revenue per acre, \$) for tentatively suitable timberlands.....	B-22
Table B-4	ASQ and suitable acres.....	B-24
Table B-5	Timber harvest over the planning horizon.....	B-24

List of Tables

Table E-1	Silvicultural systems, methods, and features.....	E-10
Table F-1	Road management – No Action Alternative.....	F-3
Table F-2	Road management – Preferred Alternative	F-6
Table F-3	Road management – Alternative A.....	F-9
Table F-4	Road management – Alternative B.....	F-12
Table F-5	Road management – Alternative C.....	F-15
Table F-6	Road management – Alternative D.....	F-18
Table F-7	Road management – Alternative E.....	F-21
Table F-8	Road management – Alternative F.....	F-24
Table F-9	Trails and routes management – No Action Alternative.....	F-28
Table F-10	Trails and routes management – Preferred Alternative.....	F-35
Table F-11	Trails and routes management – Alternative A.....	F-42
Table F-12	Trails and routes management – Alternative B.....	F-49
Table F-13	Trails and routes management – Alternative C.....	F-56
Table F-14	Trails and routes management – Alternative D.....	F-63
Table F-15	Trails and routes management – Alternative E.....	F-70
Table F-16	Trails and routes management – Alternative F.....	F-77
Table F-17	Special access area – No Action.....	F-85
Table F-18	Special access area – Alternative A.....	F-86
Table F-19	Special access area – Alternative B.....	F-87
Table F-20	Special access area – Alternative C.....	F-88
Table F-21	Special access area – Alternative D.....	F-89
Table F-22	Special access area – Alternative E.....	F-90
Table F-23	Special access area – Alternative F.....	F-91
Table H-1	Wild and Scenic River Designation by Alternative.....	H-28
Table H-2	Research Natural Area by Alternative	H-29
Table I-1	Stipulations in areas with resource sensitivity	I-3
Table K-1	Summary of mineral assessments within the Chugach National Forest.....	K-34
Table L-1	List of the 197 Chugach National Forest community type represented by three or more sample plots	L-1